

| Form PTO-1595 | | U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office RECORDATION FORM COVER SHEET PATENTS ONLY | | Attorney's Docket No. 03-4015 |
|---|--|---|--|-------------------------------|
| To the Honorable Commissioner of Patents and Trademarks. Please record the attached original document(s) or copy(ies) thereof. | | | | |
| 1. Name of conveying party(ies): Brig Barnum ELLIOTT Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 2. Name and address of receiving party(ies): Name: BBNT SOLUTIONS LLC Address: 10 Moulton Street Cambridge, MA 02138 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name Other: Execution Date: <u>March 8, 2004</u> | | | | |
| 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/715,751 B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | |
| 5. Name and address of party to whom correspondence should be mailed: Name: Christian R. Andersen Address: Verizon Corporate Services Group Inc. 600 Hidden Ridge Drive Mail Code: HQE03H14 Irving, Texas 75038 CUSTOMER NUMBER: 32127 | | 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorization to be charged to deposit account, if necessary. 8. Deposit account number: 07-2347 | | |
| DO NOT USE THIS SPACE | | | | |
| 9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document</i> Joel Wall Reg. No. <u>25,648</u> <u>March 23, 2004</u> Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and document: <u>3</u> | | | | |

Mail documents to be recorded with required cover sheet information to:

U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window, Mail Stop Assignment Recordation Services
Crystal Plaza Two, Lobby, Room 1B03
Arlington, Virginia 22202

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ASSIGNMENT
(Sole)
Worldwide Rights

THIS ASSIGNMENT, by Brig Barnum Elliott residing at 25 Wollaston Avenue, Arlington, Massachusetts 02476 (hereinafter referred to as "the Assignor"), respectively, witnesseth:

WHEREAS, the Assignor has invented certain new and useful improvements in SYSTEMS AND METHODS FOR IMPLEMENTING CONTENTION-BASED OPTICAL CHANNEL ACCESS set forth in an application for Letters Patent of the United States,

- (1) ☐ which is a provisional application
(a) ☐ filed herewith; or
(b) ☐ bearing Application No. _____, and filed on _____; or
- (2) ☒ which is a non-provisional application
(a) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
(b) ☒ bearing Application No. 10/715,751, and filed on November 17, 2003; or
(c) ☐ filed herewith; and

WHEREAS, BBNT SOLUTIONS LLC, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 10 Moulton Street, Cambridge, MA 02138 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or

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Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.


Brigg Barnum ElliottDate: 8 MAR 04
Witness SignatureROBERT VINCENT
Witness Name

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DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SYSTEMS AND METHODS FOR IMPLEMENTING CONTENTION-BASED OPTICAL CHANNEL ACCESS, the specification of which ☒ was filed November 17, 2003 and assigned Application Serial No. 10/715,751 or ☐ is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or § 365(a) of any PCT international application(s), designating at least one country other than the United States, listed below and have also identified below any foreign application(s) for patent or inventor's certificate, or any PCT international application(s) having a filing date before that of the application(s) of which priority is claimed:

| Country | Application Number | Date of Filing | Priority Claimed Under 35 U.S.C. 119 |
|---------|--------------------|----------------|--|
| | | | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| | | | <input type="checkbox"/> YES <input type="checkbox"/> NO |

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

| Application Number | Date of Filing |
|--------------------|----------------|
| | |
| | |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT international application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

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| U.S. Applications | | Status (Check One) | | |
|-------------------------|------------------|--------------------|---------|-----------|
| U.S. Application Number | U.S. Filing Date | Patented | Pending | Abandoned |
| | | | | |
| | | | | |

| PCT Applications Designating the U.S. | | | | | |
|---------------------------------------|-----------------|--------------------------------------|--|--|--|
| PCT Application No. | PCT Filing Date | U.S. Serial Number Assigned (if any) | | | |
| | | | | | |
| | | | | | |

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Leonard C. Suchyta, Registration No. 25,707; Adam T. Bernstein, Registration No. 36,746; and Joel Wall, Registration No. 25,648.

Please address all correspondence to:
Verizon Corporate Services Group Inc.
600 Hidden Ridge Drive
Mail Code: HQE03H14
Irving, Texas 75038
Telephone No. (972) 718-4800

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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| | | |
|---|---|------------------|
| Full Name of First Inventor Brig Bamum Elliott | Inventor's Signature <i>Brig Bamum Elliott</i> | Date 8 MAR 04 |
| Residence Arlington, Massachusetts | Country of Citizenship USA | |
| Post Office Address 25 Wollaston Avenue, Arlington, MA 02476 | | |